## What is claimed is:

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A user authentication system comprising:

a communication terminal;

5 physical-port changeover means having

packet signal input means for inputting a packet signal, which was dispatched to a predetermined communication network requiring authentication from this communication terminal, on an upstream side thereof,

authentication existence determination means for determining whether or not the packet signal, which this packet signal input means input, is a signal that has received the authentication of said predetermined communication network,

an unauthenticated-signal port for, at the time that this authentication existence determination means determined that this was a signal that had not received the authentication yet, outputting this and

an authenticated-signal port for, at the time that said authentication existence determination means determined that this was a signal that had already received the authentication, outputting this;

temporary-use address offer means for, at the time that said packet signal was output from the unauthenticated-signal port of this physical-port changeover means, temporarily giving a temporary-use IP address for login to the communication terminal that dispatched its packet signal;

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temporary-use IP address/communication terminal correspondence storage means for storing a correspondence between the temporary-use IP address that this temporary-use address offer means offered, and the communication terminal:

login picture display means for, at the time that the communication terminal, which received an offer of the temporary-use IP address by said temporary-use address offer means, logged in said predetermined communication network for receiving the authentication, and its packet signal was output from said unauthenticated-signal port, inputting this for displaying a login picture;

authentication-propriety determination means for, at the time that the login was made from said communication terminal by using this login picture display means, determining whether or not the authentication is made for this; and

network address bestowal means for, at the time that
this authentication-propriety determination means

determined to make the authentication, giving to the communication terminal a network address for transferring the signal packet to a desired communication network, which became an object of the authentication, in a manner that it is caused to correspond to the communication terminal stored in said temporary-use IP address/communication terminal correspondence storage means, instead of the temporary-use IP address.

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- The user authentication system according to claim 1, said user authentication system characterized in comprising network distribution means for, at the time that said communication terminal, to which the network address was given by said network address bestowal means, dispatched the packet signal, receiving this through said authenticated-signal port to distribute this to the corresponding communication network.
- 3 The user authentication system according to claim 1,
  20 said user authentication system characterized in that said
  authentication existence determination means comprises a
  user registration section having users, who received the
  authentication, registered, and determines whether or not
  the authentication for each user was made, based on
  25 whether or not the user was registered in this user

registration section.

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A user authentication system comprising: a communication terminal;

5 physical-port changeover means having

packet signal input means for inputting a packet signal, which was dispatched to a predetermined communication network requiring authentication from this communication terminal, on an upstream side thereof,

authentication existence determination means for determining whether or not the packet signal, which this packet signal input means input, is a signal that has received the authentication of said predetermined communication network,

an unauthenticated-signal port for, at the time that this authentication existence determination means determined that this was a signal that had not received the authentication yet, outputting this and

an authenticated-signal port for, at the time that said authentication existence determination means determined that this was a signal that had already received the authentication, outputting this;

temporary-use address offer means for, at the time that said packet signal was output from the unauthenticated-signal port of this physical-port changeover means, temporarily giving a temporary-use IP address for login to the communication terminal that dispatched its packet signal;

temporary-use IP address/communication terminal correspondence storage means for storing a correspondence between the temporary-use IP address, which this temporary-use address offer means offered, and the communication terminal;

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login picture display means for, at the time that the communication terminal, which received an offer of the temporary-use IP address by said temporary-use address offer means, logged in said predetermined communication network for receiving the authentication, and its packet signal was output from said unauthenticated-signal port, inputting this for displaying a login picture;

authentication-propriety determination means for, at the time that the login was made from said communication terminal by using this login picture display means, determining whether or not the authentication is made for this; and

normal-IP-address bestowal means for, at the time that

25 this authentication-propriety determination means

determined to make the authentication, giving to the communication terminal a normal IP address in a manner that it is caused to correspond to the communication terminal stored in said temporary-use IP address/communication terminal correspondence storage means, instead of the temporary-use IP address.

- 5 The user authentication system according to claim 4, said user authentication system characterized in
  10 comprising IP subnet distribution means for, at the time that said communication terminal, to which the IP address was given by said normal IP address bestowal means, dispatched the packet signal, receiving this through said authenticated-signal port to distribute this to the corresponding IP network.
- 6 The user authentication system according to claim 4, said user authentication system characterized in that said authentication existence determination means comprises a user registration section having users, who received the authentication, registered, and determines whether or not the authentication for each user was made, based on whether or not the user was registered in this user registration section.

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- The user authentication system according to claim 5, said user authentication system characterized in that said IP sub-network distribution means employs either the IP address or an MAC address of said communication terminal to make distribution of the packet signal sent from the communication terminal.
- 8 The user authentication system according to claim 5, said user authentication system characterized in that said 10 IP subnet distribution means distributes the packet signal to a communication network having a destination with which both of said IP address and an MAC address accorded.
- 9 A user authentication system comprising:15 a communication terminal;

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address bestowal means for, at the time that access was made from this communication terminal, giving to this an address that is accessible by an internet; and

authentication-time Web access means for, at the time

that said communication terminal made use of the address

given by this address bestowal means to request

authentication, causing said communication terminal to

make an input operation and display for the authentication

with a Web display picture, which is displayed at the time

of internet access, taken as a picture for the

authentication.

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## A user authentication method comprising:

an internet access request step of, in making access to an internet, dispatching a packet signal from a predetermined communication terminal to a network service provider connected to a local area network to make a request for access to an internet;

temporary-use IP address return step of, at the time that the request was made for access to the internet in this internet access request step, returning a temporary-use IP address for login to this communication terminal;

an authentication request step of using the temporaryuse IP address returned in this temporary-use IP address return step to dispatch the packet signal of an authentication request for a specific internet service provider from said communication terminal;

an authentication-propriety determination step of,
based on information described in the packet signal sent
in this authentication request step, determining on a
network service provider side whether or not
authentication of said specific internet service provider
is obtained;

a normal-IP-address return step of, at the time that
25 it was determined in this authentication-propriety

determination step that the authentication was obtained, returning to its communication terminal the IP address assigned for said specific internet service provider;

a packet-signal-for-internet-access dispatch step of using the normal IP address returned in this normal-IP-address return step to dispatch the packet signal for internet access from said communication terminal; and

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a packet signal distribution step of receiving the packet signal dispatched in this packet-signal-for
internet-access dispatch step to check said normal IP address thereof, and to distribute this to said specific internet service provider.